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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/759,638

Applicant(s)

PANGRAZIO ET AL.

Examiner

CHAD DICKERSON

Art Unit

2625

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 October 2009.
2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1, 16 and 17 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) ☐ Claim(s) _____ is/are allowed.
6) ☒ Claim(s) 1, 16 and 17 is/are rejected.
7) ☐ Claim(s) _____ is/are objected to.
8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
10) ☒ The drawing(s) filed on 16 January 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO/SB-08)
Paper No(s)/Mail Date _____
4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/1/2009 has been entered.

Response to Arguments

2. Applicant's arguments with respect to claims 1-13 have been considered but are moot in view of the new ground(s) of rejection. The Amendment to the claims necessitated the new grounds of rejection. However, the same references of Murren, Marks and the background of the invention are being applied. In the Applicant's arguments, the Applicant again raises an issue of a reasonable expectation of success combining the two references of Murren and Marks. The Examiner would like to briefly respond by repeating that both references involve transmitting information to different entities over a network (see paragraph [0018] of Murren and [0025] of Marks). Since both are involved in the same field of endeavor, it would be appropriate to combine the above references towards the Applicant's claims since the claims are also directed to sending information from one source to many destinations. In addition, the Murren reference clearly performs an automatic delivery method disclosed in Applicant's

invention¹. The Murren reference, like the Marks reference, performs communication from one source to many destinations. A reason why the Examiner believes that the combined references would have a reasonable expectation of success is because the claimed elements were known in the prior art and one skilled in the art could have combined the elements as claimed by known methods with no change in the respective functions of the combined references, and the combination would have yielded nothing more than predictable results to one of ordinary skill in the art since only incorporating a communication layer that supports multicast communication to a system that already transmits data from one source to many destinations would have allowed the system of combined references to transmit data more efficiently over a network specifically configured to perform the above mentioned function. This is also a reason that would have prompted one of ordinary skill in the art to combine the elements in the Marks and Murren references.

In regards to the combination with the background of Applicant's invention, the reason would be to incorporate the function of print-ready documents within the system in order for the documents to be transmitted directly to the respective subscribers or receivers of information with the elimination of the conversion or decomposition task, which will save on resources used to process the print job information (seen in Applicant's specification [005]).

The Applicant also makes an assertion that the added claim limitations regarding 1) wherein said subscriptions comprise a configuration file that functions as a lookup

¹ See Murren '085 at ¶ [0052]-[0057] and [0077]

table for subjects subscribed to by said subscribers and 2) printing said print-ready document at said individual sites are not taught by the combined references. However, in the Murren reference, the invention discloses allowing the printing of received data into a hard copy flyer once the subscriber receives the subscribed to information². This discloses the feature of printing documents at said individual sites of the subscribers and with the combination of the background of Applicant's invention introducing the feature of printing a print-ready document, the above claim feature 2) is performed.

In regards to other claim limitation, the Examiner believes that this feature is performed as well. In considering a lookup table, a value that is input yields a value that is output would broadly describe the function of a lookup table. Within the Murren reference, the user inputs in a criteria, whether that criteria involves multiple subjects or one subject, and with the input of this criteria, the system maps this criteria to items that correspond with this criteria. In addition, the system maps the user to the information that is requested through the listed criteria. Therefore, with the user being associated with the subjects requested and the subjects requested associated with the input criteria, the above claim feature is performed³.

Therefore, with the above explanations, the previously applied references are maintained.

² Id. at ¶ [0023].

³ Id. at fig. 6, ¶ [0020]-[0025] and [0048]-[0052].

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-6 and 9-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Murren '085 (US Pub No 2003/0110085) in view of Marks '374 (US Pub No 2002/0007374) and the background of the invention.

Re claim 1: Murren '085 discloses maintaining synchronization of information published to multiple subscribers, comprising:

publishing document library subject availability via multicast communication over a data network (i.e. in the system of Murren '085, the tracking component (106) publishes the availability of information within a subscribers criteria via a publishing component (110). This is not only given to a certain user, but to multiple users requesting the information. When updates occur to information within the user's criteria, multiple users' are notified by the publishing of the information to the users. Publishing is interpreted as the dissemination of information to the public. Since the updates and the requesting of information within a user's criteria occurs over a network that notifies multiple user's at the same time, the system is considered to perform multicast communication, which is when multiple clients receive the same information from one server; see fig. 1; paragraphs [0006]-[0025])

wherein said subject availability is predefined (i.e. in the system of Murren, the different keywords or items available online have a predetermined length of time that the items are to be subscribed to by a subscribers. Also, the actual information that is used to identify the item is predetermined; see ¶ [0016]-[0025]);

receiving subscriptions for document library subjects via point-to-point data communication over the data network from remote subscribers at individual sites (i.e. the subscribers (104) in the overall system support the World Wide Web and web pages. The subscribers can be considered a site since they receive information using the Internet and the system automatically sends information to the designated user using the web and web pages. The subscriber is able to subscribe to the system (102) to receive different types of information from the publication and tracking systems. This information is received on the network used in the overall system to the subscribers at their respective locations on the network. The information received is information regarding the subject matter that fits inside the subscribers desired criteria. The information relating to the subscribers criteria and information related to other criteria, or subjects, are stored on the system (102); see fig. 1; paragraphs [0006]-[0025])

wherein said subscriptions comprise a configuration file that functions as a lookup table for subjects subscribed to by said subscribers (i.e. in a lookup table, a value that is input yields a value that is output. Within the Murren reference, the user inputs in a criteria, whether that criteria involves multiple subjects or one subject, and with the input of this criteria, the system maps this criteria to items that correspond with this criteria. In addition, the system maps the user to the information that is requested

through the listed criteria. Therefore, with the user being associated with the subjects requested and the subjects being associated with the input criteria, the above feature is performed; see fig. 6, ¶ [0020]-[0025] and [0048]-[0052]);

maintaining a records of subscriber data, subject data and publication-subscription logs utilizing a publish-subscribe middleware wherein said publish-subscribe middleware enables at least one server and at least one database to operate together for management of said records (i.e. the server (102) is used with the tracking component (106), which serves as a database, and these components maintain records of a subscriber (606) and a publication-subscriber log of multiple subscribers (608). The date range is considered the publication-subscriber log because the information lists the time a subscriber subscribes to a publication on the network. The item identifier is considered as subject data since this information identifies an item that is subscribed to. Also, in figure 5, the input criteria entered by the subscriber can be stored in a dedicated area of the publishing component (110), which is accessed by the server device (102). This information can be considered as subject data. Since the server (102) operates together with the information tracking component (106), which contains a database, that store the above types of information together, the system can be considered to have publish-subscribe middleware; see figs. 1-6, paragraphs [0047]-[0056]);

instantaneously, at time of repository change, synchronizing data representative of a document with remote subscribers at individual sites over the data network (i.e. once changes are made to the database storing the information regarding the interested subscribers, the information is propagated out, via the publication component (110) to

the various subscribers (104) who may be affected by the change in information. All subscribers that are concerned with the information that is subscribed to be notified of the change in the information related to their criteria. The information relating to the criteria and with the multiple subscribers is synchronized with the subscribers since one of the improvements of this invention is to maintain synchronization of information publication to multiple subscribers; see fig. 1; paragraphs [0005]-[0025]); and

printing said document at said individual sites (i.e. in the system, the individual subscribers are able to make hard copy flyers of the information received from the network. Each subscriber represents a site in which the document is received; see ¶ [0023]).

However, Murren '085 fails to teach a data network using a multicast communication transport layer.

However, this is well known in the art as evidenced by Marks '374. Marks '374 discloses a data network using a multicast communication transport layer (i.e. it would have been obvious to one of ordinary skill in the art to combine the references of Murren and Marks since both involve the transmission of documents or other information to individuals subscribing to the information on a network (same field of endeavor). In the system, the network operations center (130) contains a multicast server (390) that is able to send documents or files to directories on predefined local servers. The Internet protocol using the IP multicast protocols is considered as the multicast communication transport layer since the IP multicast protocols, like the claim feature, is used to send

information from one point to many destinations on the network; see figs. 1 and 3; paragraph [0042]).

Therefore, in view of Marks '374, it would have been obvious to one of ordinary skill at the time the invention was made to have the feature of a data network using a multicast communication transport layer, incorporated in the device of Murren '085, in order to have a one-to-many transmission protocols used in the transmission of data within the Murren '085 system (as stated in Marks '374 paragraph [0042]).

However, the references of Murren and Marks fail to teach print-ready document.

However, this is well known in the art as evidenced by the background of the invention. The background of the invention discloses print-ready document (i.e. in paragraph [005], the system contains workstations that are able to communicate information to be printed to a printing device. Since the background of the invention sends information over a network to other devices, then the background is viewed as similar to the other applied references above (same field of endeavor). Also, the background of the invention discloses already print formatted master documents that may be transmitted to a printer directly, which eliminates a need to repeat conversion and decomposition process of another copy if desired; see paragraph [0005]).

Therefore, in view of the background of the invention, it would have been obvious to one of ordinary skill at the time the invention was made to a print-ready document, incorporated in the device of Murren, as modified by the features of Marks, in order to eliminate the need to repeat the conversion or decomposition process if another copy of

the document is needed or to save on processing resources of the received data (as stated in background of the invention paragraph [005]).

Re Claim 16: Murren '085 discloses a system for managing distributed multi-site Print Ready Document libraries comprising:

at least one database (i.e. the information tracking component contains a database; see ¶ [0017]);

at least one document library wherein documents are assigned to predefined topics stored within said at least one database (i.e. the documents are stored in the system and criteria used to describe the items on the database is predetermined before users are able to receive the subscribed to information; see ¶ [0016]-[0025]);

a data network configured to publish availability of said predefined topics to a plurality of print service sites wherein said print service sites subscribe to at least one of said predefined topics (i.e. in the system of Murren '085, the tracking component (106) publishes the availability of information within a subscribers criteria via a publishing component (110). This is not only given to a certain user, but to multiple users requesting the information. When updates occur to information within the user's criteria, multiple users' are notified by the publishing of the information to the users. Publishing is interpreted as the dissemination of information to the public. Since the updates and the requesting of information within a user's criteria occurs over a network that notifies multiple user's at the same time, the system is considered to perform multicast communication, which is when multiple clients receive the same information from one

server. Also, since the sites that are used to receive the data are able to make hard copy flyers that are used to describe the published information, these sites can be considered as print service providers since they provide the service of printing to those located at the specific site; see fig. 1; paragraphs [0006]-[0025]) utilizing a configuration file conveyed over said data network (i.e. in a lookup table, a value that is input yields a value that is output. Within the Murren reference, the user inputs in a criteria, whether that criteria involves multiple subjects or one subject, and with the input of this criteria, the system maps this criteria to items that correspond with this criteria. In addition, the system maps the user to the information that is requested through the listed criteria. Therefore, with the user being associated with the subjects requested, the user determines that the above feature is performed; see fig. 6, ¶ [0020]-[0025] and [0048]-[0052]);

at least one server configured to access said predefined topics stored within said at least one database (i.e. the information tracking and publication system is a server that accesses the different items within the subscribers predefined criteria or topics; see ¶ [0016]-[0022]);

enterprise communication equipment comprising a router and a network access device utilizing a communication transport layer configured to automatically send documents to said plurality of print service sites in accordance with said predefined topics that each of said plurality of print service sites subscribed to (i.e. in the system, the use of the internet and directing certain publications to certain users involves the clear use of a router and a device that accesses a network, such as a WAN or LAN. In

the system, when a change has occurred to a document or when a new item has been placed on the database that fits within criteria or a topic that has been input by a user, the system automatically sends the documents within the input criteria to the sites of the subscribers. Once the subscribers receive this information, they may be able to print this information out and provide it to other users who are concerned with the published information. The Marks reference also discloses routers in paragraph [0029]; see ¶ [0023] and [0052]-[0054]);

publish-subscribe middleware configured to enable said at least one server to operate in conjunction with said at least one database in order to manage subscriber data, topic data and publication-subscription logs (i.e. the server (102) is used with the tracking component (106), which serves as a database, and these components maintain records of a subscriber (606) and a publication-subscriber log of multiple subscribers (608). The date range is considered the publication-subscriber log because the information lists the time a subscriber subscribes to a publication on the network. The item identifier is considered as subject data since this information identifies an item that is subscribed to. Also, in figure 5, the input criteria entered by the subscriber can be stored in a dedicated area of the publishing component (110), which is accessed by the server device (102). This information can be considered as subject data. Since the server (102) operates together with the information tracking component (106), which contains a database, that store the above types of information together, the system can be considered to have publish-subscribe middleware; see figs. 1-6, paragraphs [0047]-[0056]);

at least one rendering device located at each of said print service sites configured to render said documents (i.e. in the system of Murren, a site is able to provide a hard copy of the subscribed to information and provide this hard copy to other concerned with this information. Since this information can be printed with a printing device, the subscribers contain rendering equipment used to output subscription information; see ¶ [0023]).

However, Murren '085 fails to teach network access device utilizing a multicast communication transport layer.

However, this is well known in the art as evidenced by Marks '374. Marks '374 discloses network access device utilizing a multicast communication transport layer (i.e. the references of Murren and Marks involve the transmission of documents or other information to individuals on a network (same field of endeavor). In the system, the network operations center (130) contains a multicast server (390) that is able to send documents or files to directories on predefined local servers. The Internet protocol using the IP multicast protocols is considered as the multicast communication transport layer since the IP multicast protocols, like the claim feature, is used to send information from one point to many destinations on the network; see figs. 1 and 3; paragraph [0042]).

Therefore, in view of Marks '374, it would have been obvious to one of ordinary skill at the time the invention was made to have the feature of network access device utilizing a multicast communication transport layer, incorporated in the device of Murren

'085, in order to have a one-to-many transmission protocols used in the transmission of data within the Murren '085 system (as stated in Marks '374 paragraph [0042]).

However, the references of Murren and Marks fail to teach print-ready document.

However, this is well known in the art as evidenced by the background of the invention. The background of the invention discloses print-ready document (i.e. in paragraph [005], the system contains workstations that are able to communicate information to be printed to a printing device. Since the background of the invention sends information over a network to other devices, then the background is viewed as similar to the other applied references above (same field of endeavor). Also, the background of the invention discloses already print formatted master documents that may be transmitted to a printer directly, which eliminates a need to repeat conversion and decomposition process of another copy if desired; see paragraph [0005]).

Therefore, in view of the background of the invention, it would have been obvious to one of ordinary skill at the time the invention was made to a print-ready document, incorporated in the device of Murren, as modified by the features of Marks, in order to eliminate the need to repeat the conversion or decomposition process if another copy of the document is needed or save on processing resources used in the system (as stated in background of the invention paragraph [005]).

Re Claim 17: The teachings of Murren '085 in view of Marks '374 and the background of the invention are disclosed above.

Murren '085 discloses the method of claim 16 further comprising instantaneously synchronizing data representative of the said document with said plurality of print service sites over the data network (i.e. in the system, the reference discloses synchronizing data representative of the document subscribed to with a plurality of subscribers that are able to print the information received over the network. Since the subscribers are able to provide the service of printing the received information, the subscribers can be considered as printer service sites; see ¶ [0001], [0005] and [0016]).

However, the references of Murren and Marks fail to teach print-ready document.

However, this is well known in the art as evidenced by the background of the invention. The background of the invention discloses print-ready document (i.e. in paragraph [005], the system contains workstations that are able to communicate information to be printed to a printing device. Since the background of the invention sends information over a network to other devices, then the background is viewed as similar to the other applied references above (same field of endeavor). Also, the background of the invention discloses already print formatted master documents that may be transmitted to a printer directly, which eliminates a need to repeat conversion and decomposition process of another copy if desired; see paragraph [0005]).

Therefore, in view of the background of the invention, it would have been obvious to one of ordinary skill at the time the invention was made to a print-ready document, incorporated in the device of Murren, as modified by the features of Marks, in order to eliminate the need to repeat the conversion or decomposition process if another copy of

the document is needed or save on processing resources used in the system (as stated in background of the invention paragraph [005]).

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
6. Barger '352 (US Pub No 2004/0003352) discloses a system where users' subscribe to activity regarding a document of interest and receive notifications when the document of interest is changed.
7. Vogt '349 (USP 6611349) discloses a system for printing and publishing that is able to transmit in the system a plate-ready file, which is used for printing a document using a plate. This is analogous to a print ready document as well.
8. **It is recommended that the Applicant schedule a telephone interview in order to discuss some of the specific aspects mentioned on pages 8 and 9 of the specification that have been incorporated in the claims. Such an interview would more likely contribute to compact prosecution of the case.**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHAD DICKERSON whose telephone number is (571) 270-1351. The examiner can normally be reached on 9:30-6:00pm Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Twyler Haskins can be reached on (571) 272-7406. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2625

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/C. D./

/Chad Dickerson/

Examiner, Art Unit 2625

/Twyler L. Haskins/

Supervisory Patent Examiner, Art Unit 2625